

WHAT IS CLAIMED IS:

1. A storage device comprising:  
a magnetic storage medium mounted in a first plane;  
a write mechanism mounted in a second plane that is parallel to the first plane and configured to write information to the magnetic storage medium; and  
a micromover configured to move the magnetic storage medium in a first direction parallel to the first plane and configured to move the magnetic storage medium in a second direction parallel to the first plane and perpendicular to the first direction.
2. The storage device of claim 1 further comprising  
a read mechanism mounted in the second plane.
3. The storage device of claim 2 wherein the read mechanism comprises a magnetoresistive sensor.
4. The storage device of claim 2 wherein the read mechanism comprises a giant magnetoresistive sensor.
5. The storage device of claim 2 wherein the read mechanism comprises a magnetic tunnel junction sensor.
6. The storage device of claim 1 wherein the magnetic storage medium comprises a longitudinal medium.
7. The storage device of claim 6 wherein the write mechanism comprises a thin film magnetic write head.
8. The storage device of claim 1 wherein the magnetic media comprises a perpendicular medium.

9. The storage device of claim 8 wherein the write mechanism comprises a write pole.
10. The storage device of claim 1 wherein the first plane is in close proximity to the second plane.
11. The storage device of claim 1 further comprising a cantilever coupled to the write mechanism.
12. A storage device comprising:
  - a magnetic storage medium mounted in a first plane;
  - a plurality of read / write mechanisms mounted in a second plane that is parallel to the first plane, wherein each of the plurality of read / write mechanisms is configured to write information to the magnetic storage medium and read information from the magnetic storage medium; and
  - a micromover configured to move the magnetic storage medium in a first direction parallel to the first plane and configured to move the magnetic storage medium in a second direction parallel to the first plane and perpendicular to the first direction.
13. The storage device of claim 10 wherein the plurality of read / write mechanisms are arranged in an array of rows and columns in the second plane.
14. The storage device of claim 10 wherein the magnetic storage medium comprises a longitudinal medium.
15. The storage device of claim 10 wherein the magnetic media comprises a perpendicular medium.
16. A storage device comprising:
  - a magnetic storage medium mounted in a first plane;

a means for writing information to the magnetic storage medium mounted, the means in a second plane that is parallel to the first plane; and  
a micromover configured to move the magnetic storage medium in a first direction parallel to the first plane and configured to move the magnetic storage medium in a second direction parallel to the first plane and perpendicular to the first direction.

17. The storage device of claim 16 further comprising  
a read mechanism mounted in the second plane.
18. The storage device of claim 17 wherein the read mechanism comprises a magnetoresistive sensor.
19. The storage device of claim 17 wherein the read mechanism comprises a giant magnetoresistive sensor.
20. The storage device of claim 17 wherein the read mechanism comprises a magnetic tunnel junction sensor.
21. A method comprising:  
providing a magnetic storage medium mounted in a first plane;  
providing a write mechanism mounted in a second plane that is parallel to the first plane and configured to write information to the magnetic storage medium; and  
providing a micromover configured to move the magnetic storage medium in a first direction parallel to the first plane and configured to move the magnetic storage medium in a second direction parallel to the first plane and perpendicular to the first direction.
22. The method of claim 21 further comprising:  
providing a read mechanism mounted in the second plane.

23. The method of claim 21 wherein the magnetic storage medium comprises a longitudinal medium.

24. The method of claim 21 wherein the magnetic media comprises a perpendicular medium.